

Post-processing: Pending Patents_Na_Main:
 Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries
 Database : summaries

```

1: /cgn2_6/pidata/1/pna/us06_comb.seq;*
 2: /cgn2_6/pidata/1/pna/us06_comb.seq;*
 3: /cgn2_6/pidata/1/pna/us07_comb.seq;*
 4: /cgn2_6/pidata/1/pna/us080_comb.seq;*
 5: /cgn2_6/pidata/1/pna/us081_comb.seq;*
 6: /cgn2_6/pidata/1/pna/us082_comb.seq;*
 7: /cgn2_6/pidata/1/pna/us083_comb.seq;*
 8: /cgn2_6/pidata/1/pna/us084_comb.seq;*
 9: /cgn2_6/pidata/1/pna/us085_comb.seq;*
10: /cgn2_6/pidata/1/pna/us086_comb.seq;*
11: /cgn2_6/pidata/1/pna/us087_comb.seq;*
12: /cgn2_6/pidata/1/pna/us088_comb.seq;*
13: /cgn2_6/pidata/1/pna/us089_comb.seq;*
14: /cgn2_6/pidata/1/pna/us090_comb.seq;*
15: /cgn2_6/pidata/1/pna/us091_comb.seq;*
16: /cgn2_6/pidata/1/pna/us092_comb.seq;*
17: /cgn2_6/pidata/1/pna/us093_comb.seq;*
18: /cgn2_6/pidata/1/pna/us094_comb.seq;*
19: /cgn2_6/pidata/1/pna/us094_comb.seq;*
20: /cgn2_6/pidata/1/pna/us095_comb.seq;*
21: /cgn2_6/pidata/1/pna/us096_comb.seq;*
22: /cgn2_6/pidata/1/pna/us097_comb.seq;*
23: /cgn2_6/pidata/1/pna/us098_comb.seq;*
24: /cgn2_6/pidata/1/pna/us098B_comb.seq;*
25: /cgn2_6/pidata/1/pna/us098C_comb.seq;*
26: /cgn2_6/pidata/1/pna/us098D_comb.seq;*
27: /cgn2_6/pidata/1/pna/us098E_comb.seq;*
28: /cgn2_6/pidata/1/pna/us098A_comb.seq;*
29: /cgn2_6/pidata/1/pna/us098B_comb.seq;*
30: /cgn2_6/pidata/1/pna/us097C_comb.seq;*
31: /cgn2_6/pidata/1/pna/us097C_comb.seq;*
32: /cgn2_6/pidata/1/pna/us098B_comb.seq;*
33: /cgn2_6/pidata/1/pna/us098D_comb.seq;*
34: /cgn2_6/pidata/1/pna/us098C_comb.seq;*
35: /cgn2_6/pidata/1/pna/us098A_comb.seq;*
36: /cgn2_6/pidata/1/pna/us098B_comb.seq;*
37: /cgn2_6/pidata/1/pna/us099C_comb.seq;*
38: /cgn2_6/pidata/1/pna/us099D_comb.seq;*
39: /cgn2_6/pidata/1/pna/us099A_comb.seq;*
40: /cgn2_6/pidata/1/pna/us099B_comb.seq;*
41: /cgn2_6/pidata/1/pna/us099A_comb.seq;*
42: /cgn2_6/pidata/1/pna/us099B_comb.seq;*
/cgn2_6/pidata/1/pna/us102A_comb.seq;*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARY

Result	No.	Query Match	
		Score	Match
1	1	1404	100.0
	2	1404	100.0
	3	1404	100.0
	4	782.6	55.7
	5	782.6	55.7
	6	781	55.6
	7	252.6	18.0
	8	252.6	18.0
	9	252.6	18.0
c	10	251	17.9
	11	251	17.9
	12	239.6	17.1
	13	214.6	15.3
	14	110.4	7.9
C	15	110.4	7.9
	16	110.4	7.9
	17	103	7.3
	18	95.2	6.8
	19	95.2	6.8
c	20	95.2	6.8
	21	92.7	6.5

22	92.4	7814	67	US-60-233-4-468-1-986	Sequence 1986, Ap
23	92.4	7814	75	US-60-313-371-1-986	Sequence 1986, Ap
24	77.4	897	80	US-60-360-207-3-9592	Sequence 319592, A
25	77.3	5.5	138	US-05-497-967-7-74	Sequence 74, Appl
c	26	68.2	4.9	US-05-497-967-7-75	Sequence 75, Appl
c	27	66.2	4.7	104	US-05-497-967-7-71
c	28	65.4	4.7	961	US-60-360-207-31796
c	29	64.4	4.6	1866449	Sequence 7176, A
c	30	64.4	4.6	1866449	Sequence 715, App
c	31	63	4.5	540	Sequence 71, Appl
c	32	62.8	4.5	100	Sequence 72, Appl
c	33	62.8	4.5	100	Sequence 79, Appl
c	34	60	4.3	18	Sequence 19, Appl
c	35	60	4.3	60	Sequence 20, Appl
c	36	60	4.3	1635	Sequence 16768, A
c	37	60	4.3	1635	Sequence 16241, A
c	38	60	4.3	1635	Sequence 16261, A
c	39	60	4.3	1635	Sequence 13387, A
c	40	60	4.3	1635	Sequence 12113, A
c	41	60	4.3	1635	Sequence 8445, Ap
c	42	60	4.3	1635	Sequence 16573, A
c	43	60	4.3	1635	Sequence 16638, A
c	44	60	4.3	1635	Sequence 16612, A
c	45	60	4.3	1635	Sequence 16768, A

ALIGNMENTS

RESULT 1
US-09-497-967-3

Sequence 8, Application US/09498612									
; GENERAL INFORMATION:									
; APPLICANT: CLARK, Theodore G.									
; TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN									
; TITLE OF INVENTION: PROTOZOA									
; FILE REFERENCE: 235 .00100101									
; CURRENT APPLICATION NUMBER: US/09/498 , 612									
; CURRENT FILING DATE: 2000-02-04									
; PRIORITY NUMBER: 60/118 , 634									
; PRIOR FILING DATE: 1999-02-04									
; PRIORITY NUMBER: 60/122 , 372									
; PRIOR FILING DATE: 1999-03-02									
; PRIORITY NUMBER: 60/124 , 305									
; PRIOR FILING DATE: 1999-03-17									
; PRIORITY NUMBER: 60/131 , 121									
; PRIOR FILING DATE: 1999-04-27									
; PRIORITY NUMBER: PCT/US00/02966									
; PRIOR FILING DATE: 2000-02-04									
; NUMBER OF SEQ ID NOS: 14									
; SOFTWARE: PatentIn Ver. 2.0									
; SEQ ID NO 8									
; LENGTH: 1404									
; TYPE: DNA									
; ORGANISM: Ichthyophthirius multifiliis									
US-09-498-612-8									
RESULT 2									
Db	1261	GGTATGATCATGTACTAGTGTAAATAAATTCCTCCAAAATTTCCTGGCTTAAGCTTAATT	1320	Db	361	AATTTTATAATGAAATGCAAGGTGCTAGTACATGCACAGCTGT	420		
Qy	1321	CCTGAATCTGCTAAAAAATATAATGATGCTTACGTTACCTTACCAATT	1380	Qy	421	CCGGTAAACAGAGTTGGTGTGATGACTGCCCTACCATGTCGATAA	480		
Db	1321	CCTGAATCTGCTAAAAAATATAATGATGCTTACGTTACCTTACCAATT	1380	Db	421	CCGGTAAACAGAGTTGGTGTGATGACTGCCCTACCATGTCGATAA	480		
Qy	1381	TATATGATCTTACGTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1380	Qy	481	TGTAACGTCGCACTGCTTACGTTACGTTACGTTACGTTACGTTAC	540		
Db	1381	TATATGATCTTACGTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1380	Db	481	TGTAACGTCGCACTGCTTACGTTACGTTACGTTACGTTACGTTAC	540		
Qy	1381	TATATGATCTTACGTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1404	Qy	541	AGATCATTACAGAAATGTTAAATGTAACGTTACGTTACGTTACGTTAC	600		
Db	1381	TATATGATCTTACGTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1404	Db	541	AGATCATTACAGAAATGTTAAATGTAACGTTACGTTACGTTACGTTAC	600		
Qy	601	AATACTCCCTTCATCCATCCATCCATCCATCCATCCATCCATCCATC	720	Qy	601	AATACTCCCTTCATCCATCCATCCATCCATCCATCCATCCATC	660		
Db	601	AATACTCCCTTCATCCATCCATCCATCCATCCATCCATCCATC	720	Db	601	AATACTCCCTTCATCCATCCATCCATCCATCCATCCATC	660		
Qy	661	AATGTTGCTTAAGCTACTTTAGGTAAATGCTAACCCATTGCCAATTAA	720	Qy	661	AATGTTGCTTAAGCTACTTTAGGTAAATGCTAACCCATTGCCAATTAA	660		
Db	661	AATGTTGCTTAAGCTACTTTAGGTAAATGCTAACCCATTGCCAATTAA	720	Db	661	AATGTTGCTTAAGCTACTTTAGGTAAATGCTAACCCATTGCCAATTAA	660		
Qy	721	TGCCCTATGGTACTAAGTGTCTCGTGGATTAATAATGGTAGCACAAA	780	Qy	721	TGCCCTATGGTACTAAGTGTCTCGTGGATTAATAATGGTAGCACAAA	780		
Db	721	TGCCCTATGGTACTAAGTGTCTCGTGGATTAATAATGGTAGCACAAA	780	Db	721	TGCCCTATGGTACTAAGTGTCTCGTGGATTAATAATGGTAGCACAAA	780		
Qy	781	TGTACTAATTTGGTCTTAACTTTACAATTAATGCTCTTAATTTCATCC	840	Qy	781	TGTACTAATTTGGTCTTAACTTTACAATTAATGCTCTTAATTTCATCC	840		
Db	781	TGTACTAATTTGGTCTTAACTTTACAATTAATGCTCTTAATTTCATCC	840	Db	781	TGTACTAATTTGGTCTTAACTTTACAATTAATGCTCTTAATTTCATCC	840		
Qy	841	AGTACATGCCCTACCTTGCCCAAGCCACTGCTGAAAGCTGACTGGT	900	Qy	841	AGTACATGCCCTACCTTGCCCAAGCCACTGCTGAAAGCTGACTGGT	900		
Db	841	AGTACATGCCCTACCTTGCCCAAGCCACTGCTGAAAGCTGACTGGT	900	Db	841	AGTACATGCCCTACCTTGCCCAAGCCACTGCTGAAAGCTGACTGGT	900		
Qy	901	GCGCCTACTTTAGGCAAAATAATGTTAAATGGCTGCTCCCTGATGGT	960	Qy	901	GCGCCTACTTTAGGCAAAATAATGTTAAATGGCTGCTCCCTGATGGT	960		
Db	901	GCGCCTACTTTAGGCAAAATAATGTTAAATGGCTGCTCCCTGATGGT	960	Db	901	GCGCCTACTTTAGGCAAAATAATGTTAAATGGCTGCTCCCTGATGGT	960		
Qy	961	GGAGCCTACTTTAGGAAATTATAACACGAAATGCTAAATGCTGTAAC	1020	Qy	961	GGAGCCTACTTTAGGAAATTATAACACGAAATGCTAAATGCTGTAAC	1020		
Db	961	GGAGCCTACTTTAGGAAATTATAACACGAAATGCTAAATGCTGTAAC	1020	Db	961	GGAGCCTACTTTAGGAAATTATAACACGAAATGCTAAATGCTGTAAC	1020		
Qy	1021	TTTGATGGATAAATTCTTGGCAGGAAGTAGATGCCAAAGCATGTC	1080	Qy	1021	TTTGATGGATAAATTCTTGGCAGGAAGTAGATGCCAAAGCATGTC	1080		
Db	1021	TTTGATGGATAAATTCTTGGCAGGAAGTAGATGCCAAAGCATGTC	1080	Db	1021	TTTGATGGATAAATTCTTGGCAGGAAGTAGATGCCAAAGCATGTC	1080		
Qy	1081	GTTCAGGGCCCTGTCAGCAACTGCAAGGTGACTCTACGTTAAATG	1140	Qy	1081	GTTCAGGGCCCTGTCAGCAACTGCAAGGTGACTCTACGTTAAATG	1140		
Db	1081	GTTCAGGGCCCTGTCAGCAACTGCAAGGTGACTCTACGTTAAATG	1140	Db	1081	GTTCAGGGCCCTGTCAGCAACTGCAAGGTGACTCTACGTTAAATG	1140		
Qy	1141	GAATGCCCTGCTGGTACTCACCGTGGACACATCTACTTAAATAGC	1200	Qy	1141	GAATGCCCTGCTGGTACTCACCGTGGACACATCTACTTAAATAGC	1200		
Db	1141	GAATGCCCTGCTGGTACTCACCGTGGACACATCTACTTAAATAGC	1200	Db	1141	GAATGCCCTGCTGGTACTCACCGTGGACACATCTACTTAAATAGC	1200		
Qy	1261	GGTATTGATAACAGTCACTGTTAAATAAAAAATTAACCTTCG	1320	Qy	1261	GGTATTGATAACAGTCACTGTTAAATAAAAAATTAACCTTCG	1320		
Db	1261	GGTATTGATAACAGTCACTGTTAAATAAAAAATTAACCTTCG	1320	Db	1261	GGTATTGATAACAGTCACTGTTAAATAAAAAATTAACCTTCG	1320		
Qy	1321	CCGAATCTGCTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1380	Qy	1321	CCGAATCTGCTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1380		
Db	1321	CCGAATCTGCTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1380	Db	1321	CCGAATCTGCTTACGTTACGTTACGTTACGTTACGTTACGTTAC	1380		
Qy	1381	ATTGGAGTGGAGCAACAGATTAGCAGAAATCATGTTAAATGTTA	1404	Qy	1381	ATTGGAGTGGAGCAACAGATTAGCAGAAATCATGTTAAATGTTA	1404		
Db	1381	ATTGGAGTGGAGCAACAGATTAGCAGAAATCATGTTAAATGTTA	1404	Db	1381	ATTGGAGTGGAGCAACAGATTAGCAGAAATCATGTTAAATGTTA	1404		

RESULT 3

PRIOR FILING DATE:	1999-03-17
NUMBER OF SEQ ID NOS:	102
SOFTWARE:	PatentIn Ver. 2.1
SEQ ID NO:	5
TYPE: DNA	
ORGANISM:	Artificial Sequence
FEATURE:	
OTHER INFORMATION:	Description of Artificial Sequence: synthetic
OTHER INFORMATION:	55KD 1-antigen coding region
US-09-497-967-5	
Query Match	55.7% ; Score 782.6; DB 18; Length 1404;
Best Local Similarity	72.5% ; Pred. No. 1.2e-174;
Matches 1013 ; Conservative 0 ; Mismatches 384 ; Indels 0 ; Gaps 0;	
Qy	1 ATGAAAAATTAATTATTAGTAATAATTTCATTAATTATCAATTAAATTAAATCT 60
Db	1 ATGAAAACACATCTGGTGAATCTGTGATCTGATCATCTCAACAGATCAACATC 60
Qy	61 GCTAATTGTCCTGTTGGAACTGAAACTAACAGCCGATAAGTTGATGATCTAGGAACT 120
Db	61 GCTAACTGTCCTGTTGGAAACCGAACACCGCTGGACAGTGGACACTGGAAAC 120
Qy	121 CCTGCAAATGTCGTAAATTGTTGAGAAACCTTTATGATAATTATGCTGCTTTCGT 180
Db	121 CCTGTTAACTGTGTTGAACGTCAGAAGTCAACGCTACTACACAAACGCTAAAC 180
Qy	181 CCTGTCGPAGTAGTCGTACCCCTGTCATAAAAAAAGATGTCGTCTAACAAAT 240
Db	181 CCTGAGGCTCTACCTGTACCCCTTGTCAGAAGGAGCCCTGAAGCTAAC 240
Qy	241 CCACCTGCTTACGTGCTTAATTAGTCACATAATGTAACCTTAATGTCGTCTGGCTGTAACCGCTAAAC 300
Db	241 CCTCTGTGTAACCGCTAACCTGGACCCGACTACGCTGCTATCATACCGAGTGTGCATC 360
Qy	301 ATTCGAGGTGGACCAACAGATPATGCCAAATTACAGAAATGTCGTAAUTGTGAATT 360
Db	301 ATCGCTGAGGAGCTAACCGCTAACCTGGTACCCGACTACGCTGCTATCATACCGAGTGTGCATC 360
Qy	361 AATTTTATATGAAATGTCCTCAAAATTAAATGTCGTAGATCATGACAGCTGT 420
Db	361 AACITCTCACAAAGAACGCTCTAACTTCACGCTGAGCTTCACTGTCACCTG 420
Qy	421 CCGTAACAGAGTGTGGTCACTGACTGTCGGTAATGCCGCTACCATAGTCGCATAA 480
Db	421 CCTGTGAAACCGCTGGCAAGGCTGACCTGACCCGACTACATGTCGGCTCAG 480
Qy	481 GTAAACCTGCGATGTGCTCACTGTAATGTCAGTGGTAACACTGATGTTATGTT 540
Db	481 TGTAACTGCGTGTGCTCAACCGCTGACCCGACTACGCTGACCCGACTACAG 540
Qy	541 AGATCATTCAACAGAATGTCGTAAATGTCAGTAACTTAAATGTTAATGTC 600
Db	541 CCCTCTTCACCGAGTGTGTCAGCTGCTGCTGAACCTTCFACTRAACGGAAAACAGCA 600
Qy	601 AATACTCTCTCAATCCGGPAAAAGTTAATGTCACACCTTGTCCGGCAATTAAACCTGCT 660
Db	601 AACACCCCTTCAACCTGGAAAGCTCAACCTGGAAACGAGCTACATGTCGGCT 660
Qy	661 AATGTTGCTTAATGTCGTAAATGTCAGTAACTTAAATGTCGTAAAGTTGTC 720
Db	661 AACGTGGCTCAGCTAACCTGGAAACGAGCTACATGTCGGCT 720
Qy	721 TCCCCCTGATGGTACTATAAGSTGCTGTGGAGTAATAATTGGTAGCAAAACACTGAA 780
Db	721 TGTCCNAGCGAACCATCTGTGCTGGTGAACAACTGGGNGGCTGAAACACCGAG 780
Qy	781 TGTACTAATGTCGTCTCAACTTTACAATTAATGTCCTAAATTCAATCCAGGTAAAT 840
Db	781 TGTACCAACTGTCGTCTCAACTTTACAACAAACAGCTCTAACCTGGAAAC 840
RESULT 5	
US-09-497-967-102	
; Sequence 102, Application US/09497-967	
; GENERAL INFORMATION:	
; APPLICANT: Clark, Theodore G.	
; ATTORNEY/AGENT: Dickerson, Jr., Harry W.	
; APPLICANT: Lin, Tian-Long	
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF	
; FILE REFERENCE: 1999-04-27	
; CURRENT APPLICATION NUMBER: 60/131,121	
; PRIORITY NUMBER: 325,001,010,01	
; PRIORITY FILING DATE: 2000-02-04	
; PRIORITY NUMBER: 60/118,634	
; PRIORITY FILING DATE: 1999-02-04	
; PRIORITY NUMBER: 60/122,372	
; PRIORITY FILING DATE: 1999-03-02	
; PRIORITY NUMBER: 60/124,905	
; PRIORITY FILING DATE: 1999-03-17	
; NUMBER OF SEQ ID NO: 102	
; SOFTWARE: PatentIn Ver. 2.1	
; SEQ ID NO: 102	
; LENGTH: 1410	
; TYPE: DNA	
; ORGANISM: Artificial Sequence	
; FEATURE:	
; OTHER INFORMATION: Description of Artificial Sequence: synthetic	
; OTHER INFORMATION: 55KD 1-antigen coding region	
US-09-497-967-102	
Query Match	
Best Local Similarity	
Score 782.6 ; DB 18;	
Pred No 1 ; Seq-174;	
Query Match	

us-09-497-967-3.rnlpm

Qy 1148 CTGCTGGTACTGTACTACCGTGGACAACACATCTACTTATAAAATAAGCAGCATCTGAAT 1207
Db 1061 CTGCTGGTACAGTACTGTGAGATGAACTAACTAATTGTAAGCTTCAGCAACTGAT 1120
Qy 1208 GTGTTAATGTGCTGCCAACTTTTAACTACATGAAATAACTGATGGTAGCAGGTATG 1267
Db 1121 GTCATTAATGTCTGGCTTGTGATCAAACAACTGTGTTAACAGGAGPACTG 1180
Qy 1268 ATACATGACTAGTGTAAATAAAATTAACCTCTGGCTGAAGGTAAATTGACTGT 1327
Db 1181 ATACATGACTGTAAATAAAATTAACCTCTGGCTGAAGGTAAATTGACTGT 1240
Qy 1328 CTGGCTAAAAATAATATATATG-----TGATTTGCTCAACTTTCT 1378
Db 1241 AAGCTACTCAAAAATGTTAACTCTGGCCCTCACTTTGCTAAATTCGATTCT 1300
Qy 1379 TATTATTGATTTCPTPATTTATT 1403
Db 1301 TATTATTCTTCATTATT 1325

RESULT 9
US-09-497-967-2
; Sequence 2, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; TITLE OF INVENTION: ICHTHYOPHTHIRIUS
; FILE REFERENCE: 235_00170101
; CURRENT APPLICATION NUMBER: US/09/497,967
; CURRENT FILING DATE: 2000-02-04
; PRIORITY NUMBER: 60/131,121
; PRIORITY NUMBER: 1999-04-27
; PRIORITY NUMBER: 60/118,634
; PRIORITY NUMBER: 1999-02-04
; PRIORITY NUMBER: 60/122,372
; PRIORITY NUMBER: 1999-03-02
; PRIORITY NUMBER: 60/124,905
; PRIORITY NUMBER: 1999-03-17
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 2486
; TYPE: DNA
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-2

Qy 644 CGGCAATTAAACCTGCCT-----
Db 899 CGCGCAGGGTGTCTGCCTACTAGTAACTGTAATGCTGCAACTAAACAAACG 958
Qy 665 TTGCTTAAGCTACTTTAGTAATGCTACAATAACCGATAATGTAACCTTGCC 724
Db 959 ATTCCCTGCACTGCACTGAGCTGCCTAAAGTAATTGCGCACRANTAGCTAATGTC 1018
Qy 725 CTGATGGTACTATAAGTGTGCGVGAATG-----AAATAATTGGTAGCAGAACACTGAAT 781
Db 1019 CTACGGCAGCTGACTGTGATGAGTGGACTGTGACTGTGTTAAATGATCAGCC 1078
Qy 782 GTACTAATGTGCTCTAACTTTACATAAATGCTCCCTAAATT 826
Db 1079 GTGTTAAATGGCAGACTTACTTTACTATAATGGTGTGCTTCAGGCTCTG 1138
Qy 827 -----TCATCCAGGTAATACTACAT 847
Db 1139 GCGTTTAAGTTTGTGCTGCTGGCTGAGGTGCTGCGCTTAAGCTACTATAAT 1198
Qy 848 GCCTACCTTGCCCCAGAAATAAGATTATGGTGTCAAGCCACTGAGCTGCTGCGCTA 907
Db 1199 GTGACCTTGCCAAATAACAAACGATTCCTCCT--GCCACTSCAGGTGCCCTAAGCTA 1255
Qy 908 CTTAGCCAAATAATGPAATATTGCAATGCTGTGACTGCAATTGAGCAGGCAA 967
Db 1256 ATTAGGCCACATAATGGACTTAACTGCAACCTGGACTGCAATTGAGCAGGCTA 1315
Qy 968 CTAATATGTAATATAACAGATGCTAAATTGCTGTTATTTGATG 1027
Db 1316 CACTTGTCTTGTAGTAATTCATCCACATAATGCTCTTAATGCTGTTAATCTTTA 1375
Qy 1028 GAAATAATTCTAGCCAGGAAGTAGTAGATGCAAGCATGTCAGAAATAAAGTTAA 1087
Db 1376 ATGGTAAATTCTGAAGGGTAAAGTTAAATGTTAAAGTGTCCAGTAAGTAAACCT --A 1432
Qy 1088 GCGCTGTGAACTGCAGGGTGTACTGCTACTTTAAATGCTAATGTCCTGAAATGCC 1147
Db 1433 CTCCAGCACATGCTCAGGTAATACTGCACTTAAATGTTAAAGTGTCCAGCATATGTC 1492
Qy 1148 CTGCTGTGACTGTGACTCACGGATGGAACACATCTACTTATAATAACGCACTGTAAT 1207
Db 1493 CTGCTGTGACTGTGACTGTGATGTCACATCAACTAAATTGCTGAGCTGACTGAAT 1552
Qy 1208 GTGTTAATGTGCTGCAACTTTATACATACAAATAACTGATGTTGAGCTATTG 1267
Db 1553 GTACPAATGTCTCTGGCTTTTGCACTAAACAAACACTGGTTTACAGGACTGT 1612
Qy 1268 ATACATGACTAGTGTAAATAAAATAACTGATGCTGAAACTTACCTGCTGAACT 1327
Db 1613 ATACATGACTGTAAATATAATGTTATCAAAATAACTCTGCTGCAAGCTAAAGTATATGCTG 1672
Qy 1328 CTGCTAAAAAAATATATAATGTTATCAAAATAACTCTGCTGCAAGCTAAAGTCT 1378
Db 1673 AAGCTACTCAAAGTAAATGATGTCCTCAACTTGTGCTAAATTTATCAGTTCCT 1732
Qy 1379 TATTATTGATTCTTATTTATT 1403
Db 1733 TATTATTCTTCTTCTTATTTAT 1757

RESULT 10
US-09-498-612-3
; Sequence 3, Application US/09498612
; GENERAL INFORMATION:
; APPLICANT: Gernig, Jacek
; APPLICANT: DICKERSON, Jr., Harry W.
; APPLICANT: CLARK, Theodore G.
; APPLICANT: THE UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.
; TITLE OF INVENTION: RECOMBINANT EXPRESSION OF HETEROLOGOUS NUCLEIC ACIDS IN
; PROTOZOA
; FILE REFERENCE: 235_00100101

Db 1649 GTGCTGTTAAGGAAAGCTTAATGGTAAATTAAACCTTTCGCCAGAAATTATGCTGCTGCTAGAG 1590
 Qy 404 CTACATGCACAGCTGCTCGGTAAACAGAGTTGGTGCACTGACTGCTGTTAATTCG 463
 Db 1589 GTATATGTGACCATGCGCAAAATAAACAGTAGCTCCTGTTACCAACTGAGGTGACTTAG 1530
 Qy 464 CTACCATAGTCGCAATAATGTAACCTCGATGCTCAGTGTACTGACTGATGATGGAG 523
 Db 1529 CTACCTAGGACATAATGTAACCTCGATGCTCAGTGTACTGACTGATGATGGAG 1470
 Qy 524 TAACTACTGATTGTTAATCATTCAGAGAAATGTTAAATGTTAGACTTAACTTTACT 583
 Db 1469 TGACAGATGTTTGTAGATCGCCGATAATGTTAAATGCAAACCTTAACTTTACT 1410
 Qy 584 ATAATGGTAAATGGTAAATACTCCTTCAACTCAGGTTAAAGTTAATGCAACCTTGTG 643
 Db 1409 ATAATGGTGGTTCTCTTAAAGGTGTTAAAGTTGTTGGCTGGTGTG 1350
 Qy 644 CGGCAATTAAACCTGCT-----
 Db 1349 CGGTGCAAGTGTGTCGGTACTAGTTAATGTTAACCTTGCAACTAACAAAACG 1290
 Qy 665 TTGCTTAAGCTACTTTAGTAATGCTACATAACCGCATATAATGTAAGGTGCTGCC 724
 Db 1289 ATTCTCCGCCACTGCAAGTGTGCTTAACCTTAATTAGCCACATAATGAGC 1230
 Qy 725 CTGATGGTACTATAAGTGTCTGGTACT---AAATAATGGTGTGACAAAAACACTGAAT 781
 Db 1229 CTACTGGGACTGTACTIGTAGTGTGGACTGACTTTAAATCATGCCACATTAT 1170
 Qy 782 GTRACTAATGTTGTGCTCCTAACCTTACATAATAATGCTCTTAAT-----
 Db 1169 GTGTTAAATGGAGACCTTAACCTTACTATAATGGTTCTCTTAAGGTGAAGCTCTG 1110
 Qy 827 -----
 Db 1109 GCGTTAACTTTGCTGTCGGTGCAGGTGTCAGGTGCTACTAGTTAAAT 1050
 Qy 848 GCCTACCTTGCCAGAAATAAAAGATTTGTTGCACTGAGCCAGTGGTCCCGCT 907
 Db 1049 GTGTACCTTGCCAAATAAACAGTACCTCT---GCGCTCGAGGTGCTTAAGCTA 993
 Qy 908 CTTAGCCAAATAATGTAATATGGTGTGCTGTGGTACTGCAATTTGTTAGGGAGCA 967
 Db 9912 ATTAGGCCACATAATGCCACTGCAACTGCACTGCACTGCACTGAGGAGTGA 933
 Qy 968 CTAATTATGTAATATTAACAGATACTGCTAAATGTTGCTGCAACTTTTGTATG 1027
 Db 932 CACTTGTCTTGTAGTAATTCATCCACATAATGTTCTTAATTAATCTTTTA 873
 Qy 1028 GTAATAATTTAGCCAGGAGTACTAGTGTGCAAAAGCTTAAATGTTAAGT 1087
 Db 872 ATGGTAAATTCGAAAGGTAAGGTTAAATGTTAAAGTGTCAATGTTAAACT---A 816
 Qy 1088 GCGCTGTGCAACTCGAGGTGTTACTGCACTTTAATGCAATAATGTCCTGAA 1147
 Db 815 CTCCACGACATGCTCGGAAATACTGCACTTAACCTAAATGTTGACACATGTC 756
 Qy 1148 CTGCTGGTACTGTACTCACCGATGAAACACATCTACATTAAATAGGCAATGCAAT 1207
 Db 755 CTGCTGGTAAAGTGTGCTGGCTTGTGATGATGAACTCAAAACTGAACTGAA 696
 Qy 1208 GTGTTAAATGTGCTGCCACATTATACATGTTAAATGTTGAGGTGAGSTATGG 1267
 Db 695 GTACTAAATGTTGCTGGCTTGTGATGAACTCAAAACACTGTTGAGGTGACTG 636
 Qy 1268 ATACATGTAATGTTGTAATAAAATTAACCTCTGGCGTAAGGCTAAATTTACCTGAAAT 1327
 Db 635 ATACATGTAATGTTGTAATAAAATTAACCTCTGGCCACAGTAAACTATGTCG 576
 Qy 1328 CTGCTAAAAAATATATATATG-----TGATTTTCATCAATTTCCT 1378
 Db 575 AAGCTACTCAAAAGTATAATGCCCTCAACTACTTTCGATTAATCGATTCCCT 516
 Qy 1379 TATTTATGATTCTTCTTATTTATTATT 1403
 Db 515 TATTTATTTCTTCTTATTTATT 491
 RESULT 12
 US-07-763-352A-2
 ; Sequence 2, Application US/07763352A
 ; GENERAL INFORMATION:
 ; APPLICANT: Clark, Theodore G.
 ; TITLE OF INVENTION: ICH IMMOBILIZATION ANTIGEN AND FISH
 ; TITLE OF INVENTION: VACCINE
 ; NUMBER OF SEQUENCES: 15
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Greenlee and Winner
 ; STREET: 570 Manhattan Circle, Ste. 201
 ; CITY: Boulder
 ; STATE: Colorado
 ; COUNTRY: USA
 ; ZIP: 80303
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/763,352A
 FILING DATE: 19910920
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Ferber, Donna M.
 REGISTRATION NUMBER: 33,878
 REFERENCE/DOCKET NUMBER: 15-91
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 303/498-8080
 TELEX: 823189
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1193 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA to mRNA
 FEATURE:
 NAME/KEY: mat_peptide
 LOCATION: 13..1125
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..1128
 OTHER INFORMATION: /codon= (seq: "taa", aa: Glu)
 /codon= (seq: "tag", aa: Glu)
 US-07-763-352A-2
 Query Match Score 239.6; DB 3; Length 1193;
 Best Local Similarity 55.28; Pred. No. 6e-41;
 Matches 551; Conservative 0; Mismatches 414; Indels 33; Gaps 3;
 Qy 344 GTGTAAATGTGAGATAATTTTATAATGAAAATGCTCCAAATTTAATGAGGTGCTA 403
 Db 119 GTGTGCTTAAGGAAAGCTTAATGTTAACTCTGCTGAGAAATAATGCTGCTAG 178
 Qy 404 GTACATGCAAGCTGCTGGTAAACAGAGTTGGTGTGATGTGTTAATGCCG 463
 Db 179 GTATATGTTACATGCCAAATAACAGAGTGTGTTACCATGCAATGCTGACTTAG 238
 Qy 464 CTACATGCTGGATAATGTAAGTGTGCTCATGTCCTACTGGFACTGCACTGAG 523
 Db 239 CTACTTAGGCCACATATACTGCACTACTTAATGTCCTACTGGCACTGACTGAG 298

524 TAACACTGATTAGTTAGATCATTCACAGAATGTAAATGTAGACTTAACCTTACT 83
 QY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 Db 299 TAGAGATGTTTGATAGATCAGCGCATATACTGTAAATGCAAACCTAACCTTACT 358
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC DOS/MS-DOS
 ; SOFTWARE: Patent Release #1.0, version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/763,352A
 ; FILING DATE: 19910920
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Ferber, Donna M.
 ; REGISTRATION NUMBER: 33,878
 ; REFERENCE/DOCKET NUMBER: 15-91
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 303/499-8080
 ; FAX: 303/499-8089
 ; TELEX: 823189
 ; INFORMATION FOR SEQ ID NO: 14:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1936 base Pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA to mRNA
 ; NAME/KEY: mat_peptide
 ; LOCATION: 88..1269
 ; FEATURE: sig_peptide
 ; NAME/KEY:
 ; LOCATION: 28..88
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 28..1272
 ; OTHER INFORMATION: /codon= (seq: "taa", aa: Glu)
 ; OTHER INFORMATION: /codon= (seq: "tag", aa: Glu)
 US-07-763-352A-14

Query Match Score 214.6; DB 3; Length 1936;
 Best Local Similarity 55.4%; Pred. No. 6.2e-10; Gaps 5;
 Matches 591; Conservative 0; Mismatches 374; Indels 102; Gaps 5;

QY 344 GTGTTAATGAGAATTAATTTATATGAAAATTTCTCCAAATTTATATGAGGTGCTA 403
 Db 194 GTGCTGCTAAGAGAACCTAATGGTAAATACCTTTCGCACAAATAATGCTGCTAGAG 253
 QY 404 GTACATGACAGCTTGTGCGTAAACAGAGTGGTGAATTGACTGTGCTAATGCGC 463
 Db 254 GTATATGTTACATGCCAACATTAATGTCCTTAATGGTAAATGAGCTGAGCTGCTAG 313
 QY 464 CTACCATAGTCGCAATAATGTAAGTCGGATGCTACTGGTACTGCACATGATGGAG 523
 Db 314 CTACCTTGGCACAAATCAGTCAATGCTTCAATCAGGAAACACTGACCTGACTGATGGAG 373
 QY 524 TAATCTGATTAGTTAGATCATTCACAGAATGTAAATGTAGACTTAACCTTACT 583
 Db 434 ATAATGGTGGTTCTGGCTTAAGGTGAAGCTCCTGGCGTAAAGTTAGCTGGCTG 493
 ; Sequence 14, Application US/07/763,352A
 ; GENERAL INFORMATION:
 ; APPLICANT: Clark, Theodore G.
 ; APPLICANT: Dickerson, Harry W.
 ; TITLE OF INVENTION: ICH IMMOBILIZATION ANTIGEN AND FISH
 ; NUMBER OF SEQUENCES: 15
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Greenlee and Winner
 ; STREET: 5370 Manhattan Circle, Ste. 201
 ; CITY: Boulder
 ; STATE: Colorado
 ; COUNTRY: USA
 ; ZIP: 80303

RESULT 13
 QY 1277 CTAGTGTAAATAAAATTAACCTCTGGGCTGAAGCT 1314
 Db 1073 CTGAATGTTACTAAATAACCTCTGGGCCACAGCT 1110

QY 665 TTGCTTAAGTACTTGTGTTAAATGTAACGTTGATGCC 724
 Db 554 ATTCTCTGCCACTGAGGCGCTAAAGCTTAATGPGCAATATGATGTC 613

QY 725 CTGATGGTACTATAAGTGTGCTGGAGT--AAATAATGGTAGCAGAAAACACTGAT 781
 Db 614 CTACTGGCAGCTGACTGTTAGTGTGAGCTGACACTGATGGAGT 673

Qy	782	GTTCTAATGTCGCCACTTAACTTTACAATAATAATGTCCTTAAT	- - - - -	826
Db	674	GTTAAATGCCAGACCTAACTTTACTATGGTGTCTCTTAAGGTGAAGGTCTCTG	733	
Qy	827	- - - - -	TCAATCCAGGTAATGATCAT	847
Db	734	GGTTAACGTTGGCTGGCGCTGGAGGTGTGCGGTACTGTTAAGGTGAAGGTCTCTG	793	
Qy	848	GCCTACCTTGCCCCGAAATAAGGATTATGGTGTGAAAGCCACTGGCAGTGTGGCGCA	907	
Db	794	GTTGACCTTGCCAACTAAACAAACGATTCTCTT - - - GCCACTGAGGTGCTCTAAAGCTA	850	
Qy	908	CTTAGCCAAATAAATGTAATATGGTGTGAACTGGTACTGCAATTGCTAGTGAGCAA	967	
Db	851	ATTAGCCACATAATGGCAGCTTAATGTCCTAAACAAACGATTCTCTT - - -		
Qy	968	CTAATATGTAATATATATAAACGAAATCTCAATAATGGTGTCTAACTTTATTTGATG	1027	
Db	911	CACTGTTTATGTAATTGCAATACATAATGTCCTTATGCAATTGTAATCTTTA	970	
Qy	1028	GTAATAATTCTGCGGAGACTGTTAGTAGCAAGGATGTCAGCAAAATAAAGTTAAC	1087	
Db	971	ATGTTAATCTCGANGCAGGTTAAAGTTAATGTTAAAGTCAAGTAAACT - - - A	1027	
Qy	1088	GCGCTGAGCAACTGGCAGGACTGTTAGTAGCAAGGATGTCAGCAAAATAAAGTTAAC	1147	
Db	1028	CTCAGCACATGCTCCAGTAATGTTAGCTTAATGCAATAATGTTGACCATGTC	1087	
Qy	1148	CTGCTGGTACTGTACTCACCGATGAAACAACATCTACTTAAATAAGCAGCATGAA	1207	
Db	1088	CTGCTGGTACAGTCACTGATGTTAGTGAACATCAACTTAATTTGTCCTCCGCACTGAT	1147	
Qy	1208	GTGCTAAATGTCGCCACTTTATGACTAAATAAATGTTAGCTGAGCTATGTTAG	1267	
Db	1148	GTACTAAATGTCGCCACTTTATGACTAAATAAATGTTAGCTGAGCTATGTTAG	1207	
Qy	1268	ATACATGTAATGTAATGTAATAAAATAAATTAACCTTGCGCTGTGAACT	1314	
Db	1208	ATACATGTAATGTAATGTAATAAAATAAATTAACCTTGCGCTGTGAACT	1254	
RESULT 14				
US-09-196-161-1				
Sequence 1. Application US/09196161A				
GENERAL INFORMATION:				
; APPLICANT: SIN, YOKE M				
; APPLICANT: LAM, TOONG J				
; APPLICANT: GONG, ZHIYUAN				
; TITLE OF INVENTION: A RECOMBINANT VACCINE AGAINST FISH INFECTIOUS DISEASES				
; FILE REFERENCE: RECOMBINANT VACCINE FOR FISH				
; CURRENT APPLICATION NUMBER: US/09/196,161A				
; CURRENT FILING DATE: 1598-11-20				
; NUMBER OF SEQ ID NOS: 5				
; SOFTWARE: PatentIn Ver. 2.0				
; SEQ ID NO 1.				
; LENGTH: 316				
; TYPE: DNA				
; ORGANISM: Ichthyophthirius multifiliis				
US-09-196-161-1				
Query Match 7.9%; Score 110.4; DB 15; Length 316;				
Best Local Similarity 65.3%; Freq. No. 1.5e-15;				
Matches 162; Conservative 0; Mismatches 86; Indels 0; Gaps				
Qy	344	GTGTTAACGTTGAGATTAAATTGTTATAATGAAATGGCTCCAAAATTGTTAATGCGGCTTA	403	
Db	2	GTGCTTAAAGGAAAGCTTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	61	
Qy	404	GTACATGCGACAGCTTGTCGCCGTTAACAGAGTGGTGTGCACTGCTGCTGCTGCTGCTG	463	
Db	62	GTATGTTACCATGCCAAATAAACAGTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	121	
Qy	464	CTACCATAGTCGCAATGTAATGTCGATGTCCTACTGGTACTGACTGATGATGGAG	523	

Db	122	CTACTTGTAGCCACATPATGAGTACTAACAGAATGTAAATGTGCTACTGGCACTTGAGAG 181
Qy	524	TAACATTGATTGTTAGATCATTCACAGAATGTAAATGTGCTACTGGCACTTGAGAG 583
Db	182	TGACAGATGTTTGTAGATCGCCATAATGTGTTAAATGCACAACTTGTACT 241
Qy	584	ATAATGGT 591
Db	242	ATAATGGT 249
RESULT 15		
US-09-196-161-2		
Sequence 2, Application US/09196161A		
GENERAL INFORMATION:		
APPLICANT: STIN, YOKE M		
APPLICANT: LAM, TOONG J		
APPLICANT: GONG, ZHIYUAN		
TITLE OF INVENTION: A RECOMBINANT VACCINE AGAINST FISH INFECTIOUS DISEASES		
FILE REFERENCE: RECOMBINANT VACCINE FOR FISH		
CURRENT APPLICATION NUMBER: US/09/196-161A		
CURRENT FILING DATE: 1998-11-0		
NUMBER OF SEQ ID NOS: 5		
SOFTWARE: PatentIn ver. 2.0		
SEQ ID NO 2		
LENGTH: 316		
TYPE: DNA		
ORGANISM: Ichthyophthirius multifiliis		
US-09-196-161-2		
Query Match Score 7.9%; Score 110.4; DB 15; Length 316;		
Best Local Similarity 65.3%; Pkd. No. 1.5e-15;		
Matches 162; Conservative 0; Mismatches 86; Indels 0; Gaps 0		
Qy	344	GTGTTAAATGTGAAATTAATTTAATGAAAATGCTCCAATTTAATGCCAGGTGCTTA 403
Db	2	GTGCTGCTTAAGAGAAGCTTAATGCPAAATPACCTTTCGAGCAAATATGCTTAGAG 61
Qy	404	GTCATGGCACAGCCTTGTGGGTAAACAGAGTTGGTGGCATTTACTGCTGGTAATGCCG 463
Db	62	GTAATGGTACCATGCCAAATAACAGAATGCTGTAAATGTGCTGACTGGTGGTAATGCCG 121
Qy	464	CTACCATGTCGATATGTGAACTGTCGATGCTTACTGTCGACTGTCGACTGTGATGGAG 523
Db	122	CTATCTTGTGTTGTGATAGTCGACTTAAATGCTTACTGGCACTTCGACTTGTGATGGAG 181
Qy	524	TAATCTGATGTTAGATGTCGACTTAAATGCTTACTGGCACTTCGACTTGTGATGGAG 583
Db	182	TGACAGATGTTGTGATAGTCGACTTAAATGCTTACTGGCACTTCGACTTGTGATGGAG 241
Qy	584	ATAATGGT 591
Db	242	ATAATGGT 249

